

U.S. GEOLOGICAL SURVEY  
CHARLES D. WALCOTT, DIRECTOR

# STRUCTURE SECTIONS

TENNESSEE - NORTH CAROLINA  
GREENEVILLE QUADRANGLE

## LEGEND

### SEDIMENTARY ROCKS

SHEET SYMBOL	SECTION SYMBOL
Cn	Cn

Newman limestone  
(bluish shaly and massive limestone)

Dg	Dg
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Grainger shale  
(grayish sandstone and sandy shale)

Dc	Dc
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Chattanooga shale  
(carbonaceous black shale)

### UNCONFORMITY

Sr	Sr
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Rockwood formation  
(variegated sandy and calcareous shales)

Scl	Scl
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Clinch sandstone  
(massive white sandstone)

Sb	Sb
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Bays sandstone  
(red, calcareous and argillaceous sandstone)

Osv	Osv
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Sevier shale  
(colorless sandstone, sandy shale, calcareous shale, and limestone)

Omc	Omc
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Moccasin limestone  
(red and green, argillaceous limestone)

Oh	Oh
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Tellie sandstone  
(red and gray calcareous sandstone)

Oa	Oa
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Chickamauga limestone and Holston marble lentil  
(redish variegated marble)

€ok	€ok
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Knox dolomite  
(magnesian limestone, massive and cherty)

€n	€n
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Nolichucky shale  
(variegated calcareous shale and thin limestones)

€m	€m
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Maryville limestone  
(massive blue limestone)

€rg	€rg
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Rogersville shale  
(greenish clay shale with limestone layers)

€rt	€rt
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Rutledge limestone  
(massive dark-blue limestone)

€r	€r
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Rome formation including sandstone lentil at base  
(red, green, and brown, sandy shale and sandstone)

€sh	€sh
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Shady limestone  
(grayish limestone with chert)

€h	€h
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Hesse quartzite  
(massive white quartzite)

€mr	€mr
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Murray slate  
(bluish and gray slate)

€nb	€nb
-----	-----

Nebo quartzite  
(massive white quartzite)

€nc	€nc
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Nichols slate  
(bluish and gray slate)

€ch	€ch
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Cochran conglomerate  
(white sandstone, quartzite, and conglomerate)

€hi	€hi
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Hwassee slate  
(chiefly dark, banded slate, with sandy beds and layers of limestone)

€sb	€sb
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Showbird formation  
(chiefly light-colored quartzite and sandstone; includes beds of slate, conglomerate, and arkose)

€cb	€cb
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### IGNEOUS ROCKS

SHEET SYMBOL	SECTION SYMBOL
€mp	€mp

Max Patch granite  
(coarse or porphyritic granite, whitish to red in color)

€cb	€cb
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Cranberry granite  
(chiefly granite and granite-gneiss)

Faults

CARBONIFEROUS

DEVONIAN

SILURIAN

ORDOVICIAN

CAMBRIAN

ARCHEAN



Henry Gannett, Chief Geographer.  
Gilbert Thompson, Geographer in charge.  
Triangulation by W. C. Kern, S. S. Gannett, and F. M. Pearson.  
Topography by R. O. Gordon and R. L. Longstreet.  
Surveyed in 1893-94, 1898, and 1899.

Geology by Arthur Keith,  
assisted by A. C. Lane.  
Surveyed in 1888-1891, 1900, and 1901.

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